

PATENT ABSTRACTS OF JAPAN

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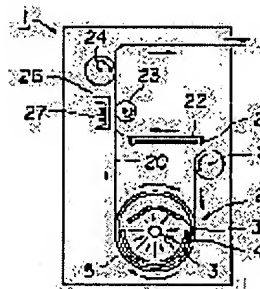
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(54) LIQUID CRYSTAL EXPOSURE DEVICE

(57)Abstract:

PURPOSE: To eliminate the need for an optical lens and to enable highly efficient exposure by winding a photosensitive recording medium around the outer peripheral surface of a light source and providing a cylindrical liquid crystal display device (LCD) shutter which rotates timing with the feed speed of the recording medium.

CONSTITUTION: The liquid crystal exposure device 2 is equipped with a halogen lamp 3 as the rod-shaped light source, a reflecting mirror 3a which guides the projection light from the lamp downward, a semicylindrical filter 4 which is arranged concentrically, and the rotatable cylindrical LCD shutter 5 which is wound with microcapsule paper 20 as the photosensitive recording medium. Then when a start key is pressed down, the lamp 3 illuminates, the capsule paper 20 is sent simultaneously as a take-up spool 24 rotates, and the shutter 5 also rotates in synchronism with the feed speed. Further, the projection light from the lamp 3 and the reflected light from the reflecting mirror 3a pass through the filter 4 and are transmitted through the shutter 5, so that the capsule paper 20 is exposed. Consequently, no optical system lens is required and uniform exposure which is free from a decrease in the quantity of marginal light becomes possible.



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